

Table 1-2

Examples of performance of the HI-Z balloon tag methodology relative to recapture and recovery times of salmonids other anadromous fishes in turbine and spill passage investigations within the last five years (1989-1995). Note recapture times are in minutes; handling mortality is considered equivalent to holding mortality of control groups.

Species	Recapture (%)		Recapture Times (min)		Control Holding Mortality (48 h)	Number**
	Treatment	Control	Treatment	Control		
Atlantic salmon*	95.0	99.0	12.8	10.3	0.0	100
Atlantic salmon*	99.0	99.0	6.0	6.0	0.0	245
Atlantic salmon	99.0	100.0	5.8	6.2	0.0	125
Chinook salmon	95.5	98.8	4.8	3.9	1.0	600
Chinook salmon	85.7	88.7	3.6	3.5	0.0	265
Chinook salmon	94.5	98.8	3.4	6.3	1.7	820
Chinook salmon	97.2	98.9	5.0	6.1	6.3***	1,830
Rainbow trout	96.3	100.0	<5.0	<5.0	0.0	106
American shad	96.0	96.0	6.9	7.2	19.0	300
American shad	88.0	92.6	6.0	4.0	0.0	108
American shad	77.5	78.5	<5.0	<5.0	NA	200
Blueback herring	84.0	86.0	5.4	7.2	19.0	125
Blueback herring*	93.6	90.0	4.6	4.9	12.0	110

* Spill test.

** Equal number of controls released.

*** 120 h mortality.